



- Topics:

- Definition of a Big Sky Pathway
- Evolution of Big Sky Pathways Development (2007-2010)
- Explanation of Big Sky Pathways Initiative (2010-2011)
- Requirements for Big Sky Pathway approval
- Campus responsibilities for Big Sky Pathways Initiative, 2010-2011

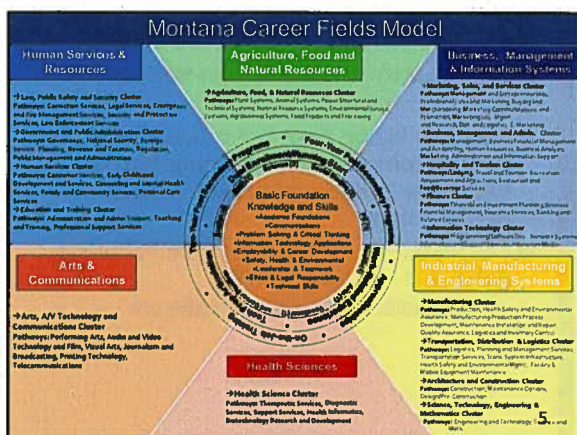
What is a Perkins Program of Study aka Big Sky Pathway?

- ❑ Incorporates and aligns secondary and postsecondary education
- ❑ Includes academic and CTE content in a coordinated, non-duplicative progression of courses
- ❑ May include the opportunity for secondary students to acquire postsecondary credits
- ❑ Leads to an Industry-recognized credential or certificate at the postsecondary level or an associate or baccalaureate degree

Sixteen Career Clusters

www.careerclusters.org

- o Agriculture, Food & Natural Resources
- o Architecture & Construction
- o Arts, AV Tech & Communications
- o Business, Management & Administration
- o Education & Training
- o Finance
- o Government & Public Administration
- o Health Science
- o Hospitality & Tourism
- o Human Services
- o Information Technology
- o Law, Public Safety, Corrections & Security
- o Manufacturing
- o Marketing
- o Science, Technology, Engineering & Mathematics
- o Transportation, Distribution & Logistics



OPI Partner:

Megan Anderson, FCS Specialist

- **Early Childhood Education**
 - Dawson Community College
 - Flathead Valley Community College
- **Culinary Arts**
 - UM-Missoula
- **Interior Design**
 - MSU-Great Falls
 - MSU-Gallatin College Programs

41

OPI Partner:

Renee Harris, Health Science Specialist

- ▣ Flathead Valley Community College
- ▣ MSU-Billings
- ▣ MSU-Great Falls
- ▣ Tech
- ▣ UM-Helena
- ▣ UM-Missoula

7

OPI Partner:

Brad King, Agriculture Ed Specialist

- ▣ Dawson Community College
- ▣ Flathead Valley Community College
- ▣ MSU-Great Falls
- ▣ MSU-Northern

8

OPI Partner:

Eric Swenson, Business Ed Specialist

Management/Admin, Finance and Marketing

- ▣ Dawson CC
- ▣ FVCC
- ▣ MSU-Billings
- ▣ MSU-Great Falls
- ▣ MSU-Northern
- ▣ Tech
- ▣ UM-Helena
- ▣ UM-Missoula

Information Technology

- ▣ FVCC
- ▣ MSU-Billings
- ▣ MSU-Great Falls
- ▣ MSU-Northern
- ▣ Tech
- ▣ UM-Missoula

9

OPI Partner:

Don Michalsky, Industrial Tech Specialist

Architecture/Construction

- ▣ FVCC
- ▣ MSU-Billings
- ▣ MSU-Great Falls
- ▣ MSU-Northern
- ▣ Tech
- ▣ UM-Helena
- ▣ UM-Missoula

Manufacturing/Welding

- ▣ Dawson CC
- ▣ FVCC
- ▣ MSU-Billings
- ▣ MSU-Great Falls
- ▣ MSU-Northern
- ▣ Tech
- ▣ UM-Helena
- ▣ UM-Missoula

10

▣ Engineering Tech

- ▣ MSU-Northern

▣ Automotive

- ▣ MSU-Billings
- ▣ MSU-Northern
- ▣ Tech

11

2007-2009:

State-Level Models Developed

- ▣ Peaks to Plains Tech Prep Consortium funded committees to develop Big Sky Pathways and provided professional development
- ▣ 16 cluster-level model Big Sky Pathways published February 2009
 - ▣ <http://mus.edu/wd/WhatAreBSP.asp>

12

12

[illegible][illegible]

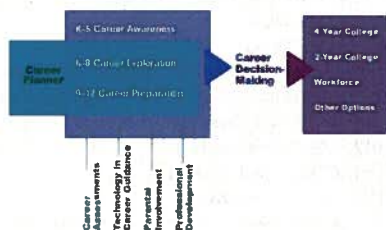
2008-2010
Montana Career Information System

- Contract with OPI/OCHE to add features to accommodate Big Sky Pathways and Student MAPs
- Piloted in 2010 by six school districts
- Went "live" in August 2010

Web-Based Guidance: *Why MCIS?*

- Free to all Montanans
- MCIS is member of 20-state Career Information Consortium (CIS)
- Partnership with Department of Labor
- Meets or exceeds career guidance standards

Career Guidance Model



Montana Career Information System
Course Planning Tool

- **Display Options**
 - By year
 - High School only
 - Postsecondary only
- **Pathway Options**
 - Default set is based on 16 Career Clusters
 - Workforce (WF) Prep & Rigorous Core Choices
- **Postsecondary Options**
 - All two-year programs completed
 - Work has begun on four-year programs

f3

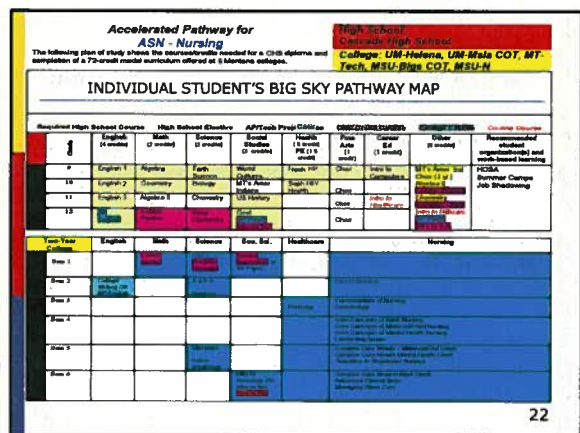
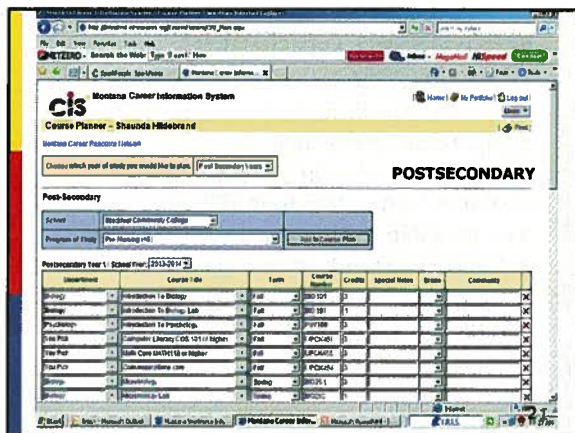
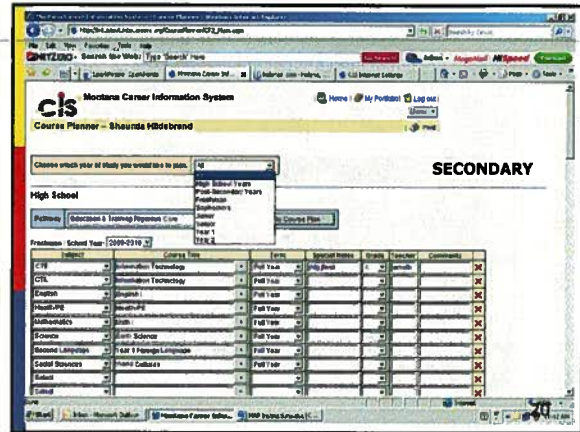
Course Options

- Sites can utilize the Default Courses
- Modify the Default Courses to incorporate their courses
- Use only their site's course offerings

Pathways Options

- Utilize the Default set of 32 Pathways with Default Courses
- Edit Pathways to incorporate site course offerings and site specific Pathway recommendations.
- Create site specific Pathways using site specific course offerings

19



CTE START:

Statewide Articulation

CTE START (CTE Statewide Articulation)

- HS courses that meet outcomes articulate to ANY campus offering the course (Statewide Articulation)
- Managed by OCHE

OCHE Transfer Initiative/Common Course Numbering

- FLOCs identify a set of learning outcomes to each course in the university system
- Outcomes form the basis of high school to college CTE articulation agreements

23

2010-2011

START Agreements

- ACTG 101, Accounting Procedures 1
- CAPP 120, Introduction to Computers
- CAPP 154, MS Word
- CAPP 156, MS Excel
- CSTN 100, Fundamentals of Construction Technology
- CSTN 120, Carpentry Basics and Rough-In Framing
- ITS 140, CCNA: Discovery 1
- ITS 142, CCNA: Discovery 2
- ITS 150, CCNA: Exploration1
- ITS 152, CCNA: Exploration2
- WLDG 110-111, Welding Theory I and Practical

24

FH

2009-2010:

Developed Guidelines and Approval Process

- ▣ CTE Program of Study Design Framework with 10 Components published by OVAE
- ▣ Montana Perkins Monitoring visit by OVAE mandated an approval process
 - Request for Approval with Assurances
 - Big Sky Pathways Template for Schools

25

Requirements for

Big Sky Pathway Approval

1. Includes all state and local graduation requirements
2. Identifies the appropriate secondary CTE, academic, and recommended elective courses offered by this high school which will prepare the student for college-level courses without remediation
3. Outlines a non-duplicative sequence of courses from grades 9-12 and from secondary to postsecondary education
4. Prepares students for entry into a postsecondary program or apprenticeship
5. Leads to an industry-recognized postsecondary credential, degree or employment

26

6. Includes appropriate state standards and/or industry skills standards.
7. Aligns with an AAS program offered by a Montana college (college of technology, community college, tribal college, MSU-Northern)
8. Links with a web-based guidance delivery system such as MCIS
9. When applicable, dual enrollment opportunities have been identified.
10. When applicable, Advanced Placement, IB courses and CTE START (statewide articulations) have been identified.

27

2010-2011:

Big Sky Pathways Initiative

- ▣ Big Sky Pathways Initiative
 - One-year of Perkins Tech Prep dollars distributed to colleges to be consortium leads
 - College-High School partnerships formed to develop local Big Sky Pathways
 - Based on Career Clusters
 - Specific to each high school
 - Aligned with a specific program at a Perkins-eligible college
 - Training facilitated by OCHE and OPI

28

Outcomes

Big Sky Pathway Initiative

- ▣ Strengthen partnerships with high schools and college campuses
- ▣ Involve high school counselors in the development/implementation of Big Sky Pathways
- ▣ Provide MCIS training for creation of student electronic planning portfolios—Big Sky Pathway MAPs
- ▣ Vertical curriculum alignment
- ▣ Engage local advisory committees
- ▣ Promote CTE START agreements and dual enrollment opportunities
- ▣ Establish a framework to sustain Big Sky Pathways

29

College Partners

- ▣ Dawson Community College
- ▣ Flathead Valley Community College
- ▣ MSU-Billings
- ▣ MSU-Great Falls
- ▣ MSU-Northern
- ▣ Montana Tech COT
- ▣ UM-Helena
- ▣ UM-Missoula

30

F5

Overview of Local Development

- ❑ Meeting One
 - Introduce Request for Approval requirements and Toolkit
- ❑ Between Meeting One and Meeting Two
 - High schools develop a proposed Big Sky Pathway
- ❑ Meeting Two
 - High schools share Big Sky Pathway proposals with peers
 - MCIS training

31

Step 1: Identify High School Partners

- ❑ OPI/OCHE provides colleges with names of high schools and contact information for content-specific teachers.
- ❑ OCHE will issue award letters for funding by November 1. Awards are based on the number of high school partners and Big Sky Pathways.

32

Step 2: Schedule & Prepare for Meeting One

- ❑ OPI Specialist and college faculty determine first meeting date
 - College is responsible for notifying high schools
 - Schools must send content-specific teacher AND counselor
 - College reserves a campus room for a 4-hour meeting and provides lunch
 - College provides reimbursement forms
- ❑ OPI Specialist and College Faculty develop a training agenda
 - Toolkits
 - All materials available on OCHE website
- ❑ Campus provides toolkits for high school participants (master sent to campus by November 1)

33

Step 3: Conduct Meeting One

- ❑ OPI Specialist and college faculty are co-facilitators
- ❑ If necessary, develop strategies to deal with multiple clusters within a career field, e.g., Business includes
 - Business Management and Administration
 - Finance
 - Marketing
 - Information Technology

34

Meeting One Objectives

- ❑ HS teachers/counselors know requirements for Big Sky Pathway approval
 - 10 Requirements for Approval
 - Required signatures
 - Big Sky Pathway Proposal form
- ❑ HS teachers/counselors understand the role of MCIS and Student MAPS

35

Step 4: Schedule Meeting 2

- ❑ Give HS teachers/counselors enough time to complete a proposed BSP and to meet with advisory committee and principal for signatures (about a month)
- ❑ Schedule a computer lab for MCIS training and technical assistance
- ❑ If you have multiple clusters, schedule additional rooms for discussion
- ❑ Work with OPI Specialist to get technical assistance for MCIS

36

F6

Step 5:

Conduct Meeting Two

- ▣ High Schools share Big Sky Pathway proposals with peers and college faculty
 - OPI Specialist probably will not be able to attend this meeting
 - Provide breakout room for discussion/sharing if there are multiple clusters
- ▣ MCIS Training (Computer lab)
 - How to upload the high school's courses and Big Sky Pathway
 - *Navigating Big Sky Pathways* Teacher's Guide
 - 5-10 hours of lesson plans for classroom

37

Funding *Colleges*

- ▣ Based on formula, each participating campus will receive an allocation for each Big Sky Pathway they are developing.
- ▣ Those funds may be used for:
 - Duplicating the *Big Sky Pathways Toolkit* for Meeting One
 - Duplicating the *Navigating Big Sky Pathways Teacher Guide* for Meeting Two
 - Expenses for hosting two meetings, e.g., lunch
 - Faculty and/or coordinator stipends

38

Campus Fiscal Responsibilities

- ▣ Reimburse high schools at State rate for
 - Mileage for one vehicle per meeting
 - Meals other than lunch provided
 - Motel for one night (if travel requires more than 125 miles one way)
 - Actual cost for substitute for one teacher/BSP
- ▣ Submit quarterly invoices to OCHE accountant for reimbursement

39

Questions

?

40

F7
7

